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DATE MAILED: 05/05/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,045	11/14/2003	Li-Duan Tsai	3313-1056P	9218
2292 75	90 05/05/2006		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			VIJAYAKUMAR, KALLAMBELLA M	
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
	,		1751	

Please find below and/or attached an Office communication concerning this application or proceeding.

		У	
	Application No.	Applicant(s)	
Office Action Commons	10/712,045	TSAI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Kallambella Vijayakumar	1751	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with t	he correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of the may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS te, cause the application to become ABAND	FION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 14 f	November 2003.		
	s action is non-final.		
3) Since this application is in condition for allows	ance except for formal matters	, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	I, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-22 is/are pending in the application	1.		
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-22</u> is/are rejected.	-		
7) Claim(s) <u>9 and 20</u> is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examina	er.		
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to by t	he Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	= : :		
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C. § 11	9(a)-(d) or (f).	
1. Certified copies of the priority documen	ts have been received.		
2. Certified copies of the priority documen	ts have been received in Appli	cation No	
Copies of the certified copies of the price		eived in this National Stage	
application from the International Burea	, , , , , , , , , , , , , , , , , , , ,		
* See the attached detailed Office action for a list	t of the certified copies not rec	eived.	
Attachment(s)	_		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sumr	nary (PTO-413) ail Date	
2) ☐ Notice of Draitsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		nal Patent Application (PTO-152)	

DETAILED ACTION

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claims 1-22 are currently pending with the application.

The examiner has considered the IDS filed 11/14/2003.

Claim Objections

Claims 9 and 20 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim-9 recites the limitation of an oxidant solution as a separate entity that is broader than the limitation of claim-1 from which it depends on containing a solution mixture of components.

Claim-20 recites a method using an oxidant solution as a separate entity that is broader than the limitation of claim-12 from which it depends on containing a solution mixture of components.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 9 and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding the claim-9, it recites the composition of an oxidant solution, while the claim-1 from which it depends on recites a single mixture and it is not clear whether two solutions are mixed forming a mixture just before use in claim-1 or it is a single mixture.

Regarding the claim-20, it recites the composition of an oxidant solution, while the claim-12 from which it depends on recites a process using a single mixture and it is not clear whether two solutions are mixed forming a mixture just before use in claim-12 or it is a single mixture.

The examiner construes it to be a single mixture in claims 1 and 12 for the purposes of the examination.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1-2, 6-8 and 10-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Naarmann et al. (US 5,174,867).

The use of phrase "for preparing ...capacitor" in the claim-1 has not been treated with patentability. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See In re Casey, 152 USPQ 235 (CCPA 1967) and In re Otto, 136 USPQ 458, 459 (CCPA 1963).

Naarmann et al teach composition for forming conductive polymers comprising pyrrole monomer, heterocyclic compounds such as **imidazole**, compounds such as **toluenesulfonic acid**, finely divided carrier particles, solvents such as ethanol, **acetone and water** and oxidizing agent such as **persulfate**. The composition contained 1-10 parts of imidazole per 10 parts of pyrrole (Col-1, Ln 37-39,

59-62; Col-2, Ln 6-14; 25; 30-33; 40-45). Regarding the stability of the mixture in claim-1, lines 5-8, prior

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art composition is identical to that by the applicants and identical compositions have identical properties.

All the limitations of the instant claims are met.

The reference is anticipatory.

2. Claims 1-8, 10-16, 18-19 and 21-22 are rejected under 35 U.S.C. 102(b) as being anticipated by

Lessner et al (US 6,001,281).

Lessner et al teach a composition of stabilized conductive polymer precursor solution comprising a

monomer such as 3,4-ethylenedioxythiophene, an oxidizing agent such as Fe(III) tosylate, a solvent such

as 2-propanol, and pyridine <retardant> <Example 1E>, and a method of making a capacitor by dipping

the pellets in the precursor solution and heating the solution (Col-1, Ln 54-55; Col-2, Ln 3-16; Ln 44-45;

Ln 56-68; Col-3, Ln 1-15; Col-6, Example-1, Table-1; Col-5, Ln 62-64). The prior art further teaches the

addition of perchlorates and toluenesulfonic acid in the composition. Regarding the stability of the mixture

in claim-1, lines 5-8, prior art composition is identical to that by the applicants and identical compositions

have identical properties. The ratio of the components meets the ratio limitations in the claims 10 and 21.

All the limitations of the instant claims are met.

The reference is anticipatory.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lessner et al (US 6,001,281).

The disclosure by Lessner et al on the composition of stabilized conductive polymer precursor solution and the method of making the capacitor as set forth in rejection-2 under 35 USC 102(b) is herein incorporated. The prior art further teaches the stability of the precursor solution near ambient temperatures.

The prior art fails to teach the addition of specific polymerization retardant per the claim. However, the prior art discloses the addition of non-volatile organic base such as imidazole to inhibit the polymerization of the monomer mixture (Col-3, Ln 3-5).

It would have been obvious to a person of ordinary skill in the art to add imidazole to the precursor solution of Lessner with reasonable expectation of success, because such an addition is well known in the art at the time of the disclosure of the invention by the applicants (See, Matsumoto et al, JP 06-112094, Abstract), and the prior art is concerned about the stability of the precursor solution.

Application/Control Number: 10/712,045

Art Unit: 1751

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Kallambella Vijayakumar whose telephone number is 571-272-1324. The examiner can

normally be reached on 8.30-6.00 Mon-Thu, 8.30-5.00 Alt Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Douglas McGinty can be reached on 571-272-1029. The fax phone number for the organization where

this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

KMV

April 27, 2006.

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